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Figure 13: Alignment of SEQ ID NO: 2 with Swiss Prot database

	1	50
Q9JZ47	.....	MSSNKASFFTRL
Q9JU41	.....	MSSNKASFFTRL
Q59601	.....	MSSNKASFFTRL
Q9HW50	.....	MARLRLLLRSARL
SEQ ID NO: 2	.....	MSAWTRAKTAVGL
O35259	METIMDDEVTKRTSAEELESWNLLSRTNYNFYISLRLTILWGLVGLIRY	

  

	51	100
Q9JZ47	RRLCRLAVWLFKTGKNLRGIDGG.CPESRNRAVIELGRGVLAALD.....	
Q9JU41	RRLCRLTVWLFKTGKNLRGIDGG.CPESRNRAVIELGRGVLAALD.....	
Q59601	RRLCRLTVWLFKTGKNLRGIDGG.CPKSRNRAVIALGKGALAALD.....	
Q9HW50	LGLVALGLGLAAWVSLRERLPGADVTPLRQLTRWWLARLCAALP.....	
SEQ ID NO: 2	LTLAPARIVFLVTVLGTGYGLTVAACRLGVPKSFVLGLTRCVARLTLWGL	
O35259	CFLPLPLRIALAF TGIGLLVVGTTMVGYPNGRKFKEFLSKHVHLMCYRICV	

  

	101	150
Q9JZ47	..IGLEVGRPAPEHPNG..VLVAANHVSULDIFAMS.AVYPSSFIKQEI	
Q9JU41	..IGLEVGRPAPEHPNG..VLVAANHVSULDIFAMS.AVYPSSFIKQEI	
Q59601	..IGLEVGRPAPEHPNG..VLVAANHVSULDIFAMS.AVYPSSFIKQEI	
Q9HW50	..FEVRVSGEAPRQP...MLWVANHVSWTDIPLLG.ALAPLTFLSKAEV	
SEQ ID NO: 2	GFYHIEVSCDAQGLREWP.RVIVANHVSYLEILYFMSTVHCPSFVMKKT	
O35259	RALTAIIITYHNRKNRPRNGGICVANHTSRIDVIFASDGYAMVGQVHGG	

  

	151	200
Q9JZ47	KSWPVLGKMGQNAGTVFINRNSRR.....DIEPINRAVCETLQRGQ	
Q9JU41	KSWPVLGKMGQNAGTVFINRNSRR.....DIEPINRAVCETLQRGQ	
Q59601	KSWPVLGKMGQNAGTVFINRNSRR.....DIEPINRAVCETLQRGQ	
Q9HW50	RAWPLAGWLAEKAGTLFIRRGSG.....DSRLINQRLAEQLHRGR	
SEQ ID NO: 2	LRVPLVGYIAMELGGVIVDREGGQSASAIIRDVRQEPDRSSSEKHHAQ	
O35259	LMGVIQRAMVKACPHVWFERSEVK.....DRHLVAKRLTEHVQDKS	

  

	201	250
Q9JZ47	..NVSFFPEARTSSGLGLLPFKAALFQSAIDAGAKVLAVALRYYDETGKR	
Q9JU41	..NVSFFPEARTSSGLGLLPFKAALFQSAIDAGAKVLAVALRYYDETGKR	
Q59601	..NVSFFPEARTSSGLGLLPFKAALFQSAIDAGAKVLAVALRYYDETGKR	
Q9HW50	..NLLIFPEGTTTNGESLRTFHGRMASALEAGVAVQPV AISYRRDGVDP	
SEQ ID NO: 2	..PLLVFPEGTTTNGSCLLQFKTGAFR...PG.APVLPVVLEFPIDKARG	
O35259	KLPILIFPEGTCINNTSVMFMFKGSFEIG...ATVYPVAIKY..DPQFG	

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Figure 13 (continued)

	251	300
Q9JZ47	TARPSYADVGLPTCLWRIVSMKKLTIRVDFVCVADAAE.....	
Q9JU41	TARPSYADVGLPTCLWRIVSMKKLTIKVDFVCVADAAE.....	
Q59601	TARPSYADVGLPTCLWRIVSMKKLTIKVDFVCVADAAE.....	
Q9HW50	AQAPFIGDDDLLSHLGRLLRGERGSVHIQLLEPIPSQ.....	
SEQ ID NO: 2	DFSPAYESVHTPAHLLRMLAQWRHRLRVRYLPLYEPSAAEKVDADLYARN	
O35259	DAFWNSSKYGMVTYLLRMMTSWAIVCSVWYLPMTRE.....	

  

	301	349
Q9JZ47	...SEDRYALKDKIEESIRAVVADDADIIV.....	
Q9JU41	...SEDRYALKDKIEESIRAVVADDADIIV.....	
Q59601	...SEDRYALKDKIEESIRAVVADDADIIV.....	
Q9HW50	...GLDRAELARQAQQAVRLALFGTAAPTQTRRAA.....	
SEQ ID NO: 2	VRDEMARALKVPTVEQSYRDKLVYHADLMPHYQKAGPGALYLYVRPDL	
O35259	.....KDEDAVQFANRVKSAIARQEDW.....	

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Figure 14: Alignment of SEQ ID NO: 5 with Swiss Prot database

	1	50
Q9C9P8	MEVCGDLKSDNLKNRPLTPLRILRGLMILLVFLSTAFMFLLYFAPIAALG	
Q9SFJ1	MEVCGDLKSDNLKNRPLTPLRILRGLMILLVFLSTAFMFLLYFAPIAALG	
Q9LHN4	....MEKKSVPNSDKLSLIRVLRGIIICLMVLVSTAFMMLIFWGFLSAVV	
SEQ ID NO: 5	.....	
Q9SDN3	.....	
Q9XFW4	.....MAMAAAVIVPLGILFFISGLVNNLLQAVCYVLV	
	51	100
Q9C9P8	LRLLSVQQSRKVVSLIFGLWLALWPYLFETVNGTTVVFSGDIIP...VEK	
Q9SFJ1	LRLLSVQQSRKVVSLIFGLWLALWPYLFETVNGTTVVFSGDIIP...VEK	
Q9LHN4	LRLFSIRYSRKCVSFFFGSWLALWPFLFEKINKTKVIFSGDKVP...CED	
SEQ ID NO: 5	.....MDVVKVIFAGDKVP...KEN	
Q9SDN3	.....MGKE	
Q9XFW4	RPMSKNTYRKINRVVAETLWLELVWIVDWWAGVKIQVFADDETFNRMGKE	
	101	150
Q9C9P8	RVLIIANHRTEVDWMYLWNIALRKGCGLGYIKYVLKSSLMKLPIFGWGFHV	
Q9SFJ1	RVLIIANHRTEVDWMYLWNIALRKGCGLGYIKYVLKSSLMKLPIFGWGFHV	
Q9LHN4	RVLIIANHRTEVDWMYFWDLALRKQGIGNIKYVLKSSLMKLPLFGWAFHL	
SEQ ID NO: 5	RVMVMCNHRTEVDWMYIWNLAIRKGKIGYCKYAVKNSVKNLPLFGWAFYV	
Q9SDN3	HALVISNHRSDIDWLVGWVLAQRSGCLGSSLAVMKSSKFLPVIGWSMWF	
Q9XFW4	HALVVCNHRSDIDWLVGWILAQRSGCLGSALAVMKSSKFLPVIGWSMWF	
	151	200
Q9C9P8	LEFIPVERKREVDEPVLLQMLSSFKDPQEPLWLALFPEGTDFTTECKCRS	
Q9SFJ1	LEFIPVERKREVDEPVLLQMLSSFKDPQEPLWLALFPEGTDFTTECKCRS	
Q9LHN4	FEFIPVERRWEVDEANLRQIVSSFKDPRDALWLALFPEGTDYTEAKCQRS	
SEQ ID NO: 5	FEFLMLHRKWEVDAPVIKTYIDSFQDKRDPLWL VVFPEGTD FSEAKRDTG	
Q9SDN3	SEYLFLEERSWAKDEGTLKSGVQRLKDFPQPFWLALFVEGTRFTQAKLLAA	
Q9XFW4	SEYLFLEERNWAKDESTLQSGLQRLNDFPRPFWLALFVEGTRFTEAKLKAA	
	201	250
Q9C9P8	QKFAAEVGLPALSNVLLPKTRGFGVCLEVLHNSLDAVYDLTIAYKPRCP.	
Q9SFJ1	QKFAAEVGLPALSNVLLPKTRGFGVCLEVLHNSLDAVYDLTIAYKPRCP.	
Q9LHN4	KKFAAENGLPILNNVLLPRTKGFVSCLELSCSLDAVYDVTIGYKTRCP.	
SEQ ID NO: 5	NAIGREKGYPELVNVLQPRTRGFVTCLSQSRCSLDAVYDLTIGYKKRCP.	
Q9SDN3	QEYAAATGLPVPNRNVLIPRTKGFVTAVSQMRSFAPAIYDVTVAIPKSSPA	
Q9XFW4	QEYAASELVPVRNVLIPRTKGFVSAVSNMRSFVPAIYDMTVAIPKTSPP	

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Figure 14 (continued)

	251	300
Q9C9P8	SFMDNVFGTDPSEVHIHVRRVLLKEIPANEAESSAWLMDSFKLKDKLLSD	
Q9SFJ1	SFMDNVFGTDPSEVHIHVRRVLLKEIPANEAESSAWLMDSFKLKDKLLSD	
Q9LHN4	SFLDNVYGI EPSEVHIHRRINLTQIPNQEKDINAWLMNTFQLKDQLLND	
SEQ ID NO: 5	LFINNFGTDPSEVHIHRRIPISEIPQSEDGMTQWLYDLFYQKDQMLAS	
Q9SDN3	PTMLRLFEGRPVSVHVHIKRVHMRDLPETDEAVAQWCKDIFVAKDALLDK	
Q9XFW4	PTMLRLFQGPVSVHVHIKCHSMKDLPEPEDEIAQWCRDQFVAKDALLDK	
	301	350
Q9C9P8	FNAQGKFPNQRPEEELSVLKCIATFAGKQQVTKPSCQKVFLLLNQSSDE	
Q9SFJ1	FNAQGKFPNQRPEEELSVLKCIATFAGKQQVTKPSCQKVFLLLNQSSDE	
Q9LHN4	FYSNGHFPNEGTEKEFN TKKYLINCLAVIAFTTICTHLTFFSSMIWFRIY	
SEQ ID NO: 5	FSKTGSPD SGIE.ESPLNIVEGVCNVALHVVL SGWVFWCLFH SVWLKLY	
Q9SDN3	HTVEQTFG DQQLKVTGRPLKSLLVVTAWACLLILGALKFLYWSSLLSSWK	
Q9XFW4	HIAADTFPGQEQNIGRPIKSLAVVSWACLLTLGAMKFLHWSNLFSSWK	
	351	400
Q9C9P8	KESKKAVAQHPFTDTLDHLFQVEHSISCFLYMHIYNLSTCHLISLYE...	
Q9SFJ1	KESKKAVAQHPFTDTLDHLFQVEHSISCFLYMHIYNLSTCHLISLYE...	
Q9LHN4	VSLACVYLT SATHFNLR SVPLVETAKNSLKL VNK.....	
SEQ ID NO: 5	VAFASLLLA FSTYFDWRPKPVYSSLRTKRKIV.....	
Q9SDN3	GIAFSALGLGVVTVLMQILIRFSQSERSTPAPVAPTNNKNKGESSGKPEK	
Q9XFW4	GIALSAFGLGIITLCMQILIRSSQSERSTPAKVAPAKPKDNHQSGPSSQT	
	401	
Q9C9P8	.....	
Q9SFJ1	.....	
Q9LHN4	.....	
SEQ ID NO: 5	.....	
Q9SDN3	QQ.....	
Q9XFW4	EVEEKQK	

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Figure 15: Alignment of SEQ ID NO: 35 with Swiss Prot database

	1	50
P04180	.....	MGP
Q08758	.....	MGP
Q9MZ04	.....	MGL
Q9DDJ6	.....	MGR
Q9Y2B3	.....	MGL
SEQ ID NO: 35	MCSISCGSTPQQLCHYRKSGELITRKSRAAIRWRYGQQCKVLLPLDLIR	
	51	100
P04180	PGSPWQWVTLTLLGLLLP.....	AAPFWLLNVLFPPHTTPK
Q08758	PGSPWQWVPLLLGLLLP.....	AAPFWLLNVLFPPHTTPK
Q9MZ04	PGSPWQWVLLLELLLP.....	AAPFWLLNVLFPPHTTPK
Q9DDJ6	TGAGFALLTLLLLLPQ.....	ASQFWLFNVLFPPSTPE
Q9Y2B3	HLRPYRVGLLPDGLLFL.....	LLLMLLADPALP.....
SEQ ID NO: 35	SSSQFFIVLTLTLFLFTTCGAVHTAAQDRSFATLSQRSRASLFSVGRAQ	
	101	150
P04180	AELSNHTRPVILVPGCLGNQLEAKLDKPDVVN.WMCYRKTEDEFTIWLDL	
Q08758	AELSNHTRPVILVPGCLGNQLEAKLDKPDVVN.WMCYRKTEDEFTIWLDL	
Q9MZ04	AELSNHTRPVILVPGCLGNQLEAKLDKPDVVN.WMCYRKTEDEFTIWLDL	
Q9DDJ6	APPTNSTPPVVLVPGCLGNQLEAKLDKPDVVN.WMCYRKTEDEFTIWLNL	
Q9Y2B3	...AGRHPVVLVPGDLGNQLEAKLDKPTVVH.YLCSKKTESYFTIWLNL	
SEQ ID NO: 35	ARNKHHLAPVVI VPGTGGNQL EARLTADYEANKPWCYSFRKDYFRLWLDP	
	151	200
P04180	NMFLPLGVDCWIDNTRVVYNRSSGLVSNAPGVQIRVPGFGKTY SVEYLD S	
Q08758	NMFLPLGVDCWIDNTRVVYNRSSGLVSNAPGVQIRVPGFGKTY SVEYLD S	
Q9MZ04	NMFLPLGVDCWIDNTRVTYNHSSGRVSNAPGVQIRVPGFGKTY PVEYLD N	
Q9DDJ6	NTFLPVGVDCWIDNTRVVYNRTSRKMSNAPGVHIRVPGFGKTY SVEYLD Q	
Q9Y2B3	ELLLPVIIDCWIDNIRLVYNKTSRATQFPDGVDRVPFGFKTFSLEFLDP	
SEQ ID NO: 35	KTLFPPFTTCFADRLSLDYNPQSDAYSNIKGVKTRVPFFGTTEGMEYLDP	
	201	250
P04180	SK..LAGYLHTLVQNLVNNGYVRDETVRAAPYDWRLEPGQQE....EYY	
Q08758	SK..LAGYLHTLVQNLVNNGYVRDETVRAAPYDWRLEPGQQE....EYY	
Q9MZ04	SK..LAGYMHTLVQNLVNNGYVRDETVRAAPYDWRLGPKQQE....EYY	
Q9DDJ6	SK..LAGYLHTLVQNLVNNGYVRDQTVRAAPYDWRVGPQEQP....EYF	
Q9Y2B3	SKSSVGSYFHTMVESLVGWGYTRGEDVRGAPYDWRRAPNENG....PYF	
SEQ ID NO: 35	SLKFLTGYMIHLVNALKAHGYENGKSLYGAPYDFRFAPGPHASNVALEYL	

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Figure 15 (continued)

	251	300
P04180	RKLAGLVEEMHAAYG.KPVFLIGHSLGCLHLLYFLLRQPQAWKDRFIDGF	
Q08758	HKLAGLVEEMHAAYG.KPVFLIGHSLGCLHLLYFLLRQPQAWKDRFIDGF	
Q9MZ04	RDLARLVEEMHATYG.KPVFLIGHSLGCLHLLHFLHQPQSWKDRFIDGF	
Q9DDJ6	QNLKALIEEMHDEYQ.QRVFLIAHSMGNLNVLYFLLQQRQAWKDQYIGGF	
Q9Y2B3	LALREMIEMYQLYG.GPVVLVAHSMGNMYTLYFLQRQPQAWKDKYIRAF	
SEQ ID NO: 35	KDLKDLIETAYSVNANEPVVILAHSMGGLWTLFFLNQQSMWRNKYVSRF	
	301	350
P04180	ISLGAPWGGSIKPMLVLASGDNQGIPIIMSSIKLKEEQRITTTSPWMFPSPR	
Q08758	ISLGAPWGGSIKPMLVLASGDNQGIPIIMSSIKLKEEQRITTTSPWMFPSPR	
Q9MZ04	ISLGAPWGGSIKPMQVLASGDNQGIPIIMSSIKLKEEQRITTTSPWMFPSS	
Q9DDJ6	ISLGAPWGGSVKPLRVLASGDNQGIPLMSNIKLREEQRMTTTSPWMFPST	
Q9Y2B3	VSLGAPWGGVAKTLRVLASGDNNRIPVIGPLKIREQQRSAVSTSWLLPYN	
SEQ ID NO: 35	VSVATPWGGAVEQMMTFASGNPEGVPFVNSLVVREEQRRSESNLWLLPVR	
	351	400
P04180	MAWPEDHVFISTPSFNYTGRDFQRFADLHFEEGWYMWLQ.SRDLLAGLP	
Q08758	LAWPEDHVFISTPSFNYTGRDFQRFADLHFEEGWYMWLQ.SRDLLAGLP	
Q9MZ04	EVWPEDHVFISTPSFNYTIRDYQRFVDVHFEEGWYMWLQ.SRDLLAGLP	
Q9DDJ6	LAWPEDHIFISTPSYNYTYRDYKQFFTDVNLEDGWYMWED.MKDLLKGLP	
Q9Y2B3	YTWSPEKVFTPTINYTLRDYRKFFQDIGFEDGWLMRQD.TEGLVEATM	
SEQ ID NO: 35	RCFR.DRPLVITSSRNYTAGDMEQFLCDIGFPEGVAPYKSRIPLTDILQ	
	401	450
P04180	APGVEVYCLYGVLPTPRTYIYDHGFPYTDVPGVLYEDGDDTVATRST.E	
Q08758	APGVEVYCLYGVLPTPRTYIYDHGFPYTDVVDVLYEDGDDTVATRST.E	
Q9MZ04	APGVEVYCLYGVLPTPSTYIYDHDFPYTDPLDVLYEDGDNTVATRSM.E	
Q9DDJ6	PPGVDITYCLYGTGYPTVETIYIDEHFPYEDPVDMIYGDGDDTVNRRSS.E	
Q9Y2B3	PPGVQLHCLYGTGVPPTDSFYYES.FPDRDPK.ICFGDGDGTVNLKSA.L	
SEQ ID NO: 35	PPQVPVTLIHGYGVPTAETLSYEK.KGFDNHPEITEGDGDGTVNVCSLTA	
	451	500
P04180	LCGLWQGRQPQPVHLLPLHGIQHLNMVFSNLTEHINAILLGAYRQGPPA	
Q08758	LCGLWQGRQPQPVHLLPLRGIQHLNMVFSNQTEHINAILLGAYRQGPPA	
Q9MZ04	LCSQWQGRQPQPVHLLPLHRIQHLNMVFSNQTEHINDILLGAYRHGNPV	
Q9DDJ6	LCKRWRNQKQKVHIQELRGIDHLNMVFSNLTLSSINEILLGSSQVGAGT	
Q9Y2B3	QCQAWQSRQEHQVLLQELPGSEHIEMLANATTLAYLKRVLLGP.....	
SEQ ID NO: 35	VVEEWERVAGQELEMIALHGKQHMQILHDDHSVQVIVDAILNVTPEQLM	
	501	524
P04180	SPTASPEPPPPPE.....	
Q08758	SLTASPEPPPPPE.....	
Q9MZ04	PPAASPRPLTPE.....	
Q9DDJ6	KEHGELGQMGALKSSLEAGRRGKN	
Q9Y2B3	.....	
SEQ ID NO: 35	FH.....	

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Figure 16: Alignment of SEQ ID NO: 23 with Swiss Prot database

	1	50
P10349	.....	
Q9FEP9	.....MFILSSSSSTLPSAPPFSSTTSIFLSFSRVSLPPSSSSLK...	
Q39639	MFILSAVSSSSSSSSVPSLPPFSLSPSISLSFSRVSLPPSSSSSSSL	
Q9FEQ0	.....MFILSSSSSLPSPLSLSSSRVSLPPPSSSSLN..	
Q9M4V1	.....MLVPSALPRVSRSVSAARFSVSGVGSSPALSSRS	
SEQ ID NO: 23	.....MPSLFRAKRNGRRTPGNAVTN...	
	51	100
P10349	.....MAELIQDKESAQSAATAAAAS	
Q9FEP9	..LLPLSLQFGPPKLAS.SCSLRFSASRAMAELIQDKESAQSAATAAAAS	
Q39639	KLFLPLSLHFTPPKLSSPHSFLRFSASRAMAELIQDKESAHTPSTTDVTR	
Q9FEQ0	..LLPLSPHFQPPNLAC...SCSVASRSTAELLHDFKHAHTAASADEAR	
Q9M4V1	CTSLDSSVRSSLRRCPCGIYTSRTKAVVEAVESKASAREWRSVAVKRAVLA	
SEQ ID NO: 23	.....FGKSEFH....R..EIS...GSTRATTQVAEATTAGLRE	
	101	150
P10349	SGYERRNEPAHSRKFLDVRSEEELLSCIKKETEAGKLPPNVAAGMEELYQ	
Q9FEP9	SGYERRNEPAHSRKFLDVRSEEELLSCIKKETEAGKLPPNVAAGMEELYQ	
Q39639	N.....DPPHSRAFLDLRSEEELLSCIRRETEAGKLPSNVAAGMEELYQ	
Q9FEQ0	N.....HLPHSRAFLDVRSEQELLSYIRREAEAGKLPSNVAAGMEELYQ	
Q9M4V1	SDTGAEEEVGHRSRFLRARSEEELLSYIRKEVETGRLSSDIANGLEEELY	
SEQ ID NO: 23	TIEDRAIIDGHSHSFEGIQSEEELMQVIEKEVESGRLPKRAGAGMVELYR	
	151	200
P10349	NYRNAVIESGNPKADEIVLSNMTVALDRILLDVEDPFFVSSHKAIREPF	
Q9FEP9	NYRNAVIESGNPKADEIVLSNMTVALDRILLDVEDPFFVSSHKAIREPF	
Q39639	NYKNAVFESGNPKADEIVLSNMTVALDRILLDVEDPFFMFSPHHKAIREPF	
Q9FEQ0	NYKNAVLKSGNPKADEIVLSNMTVALDRILLDVEEPPVFSPPHKAIREPF	
Q9M4V1	NYRNAVLQSGDPRANKIILSNMAVAFDRILLDVEDPFTFSPHHQAIREPF	
SEQ ID NO: 23	NYRDAVVSSGVENAMDIVVKVMSTVLDRILLQFEEPPFTFGSHHKRMVEPY	
	201	250
P10349	DYYIFGQNYIRPLIDFGNSFVGNLSLFDKIEEKLQQGHNVVLISNHQTEA	
Q9FEP9	DYYIFGQNYIRPLIDFGNSFVGNLSLFDKIEEKLQQGHNVVLISNHQTEA	
Q39639	DYYTFGQNYVRPLIDFENSFVGNLSLFDKIEEKLHQGHNVVLISNHQTEA	
Q9FEQ0	DYYTFGQNYVRPLIDFGNSFVGNPFLFDKIEEKLHQGHNVVLISNHQTEA	
Q9M4V1	DYYMFGQNYIRPLIDFRRSYIGNISIFSDMEEKLQQGHNVILMSNHQTEA	
SEQ ID NO: 23	DYYTFGQNYVRPLLDFRNSYLGNLKIFDQIEKNLKEGHNVIFLSNHQTEA	

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Figure 16 (continued)

	251	300
P10349	DPAIISLLEKTNPYIAENTIFVAGDRVLADPLCKPFSIGRNLCVYSKK	
Q9FEP9	DPAIISLLEKTNPYIAENTIFVAGDRVLADPLCKPFSIGRNLCVYSKK	
Q39639	DPAIISLLEKTNPYIAENMIYVAGDRVIADPLCKPFSIGRNLCVYSKK	
Q9FEQ0	DPAIISLLEKTSPIYAENMIYVAGDRVIDPLCKPFSIGRNLCVYSKK	
Q9M4V1	DPAIALLLERTNSHIAETMVVAGDRVLTDPCKPFSMGRNLLCVYSKK	
SEQ ID NO: 23	DPAVMALLLEHSHPYLAENLTYVAGDRVLDPFCKPFSMGRNLLCVYSKK	

	301	350
P10349	HMFDIPELTETTKRKANTRSLKEMALLLRGGSQLIWIAPSGGRDRPDPSTG	
Q9FEP9	HMFDIPELTETTKRKANTRSLKEMALLLRGGSQLIWIAPSGGRDRPDPSTG	
Q39639	HMLDIPELAETTKRKANTRSLKEMALLLRGGSQLIWIAPSGGRDRPDPSTG	
Q9FEQ0	HMFDIPELAETTKRKANTRSLKEMALLLRGGSQLIWIAPSGGRDRPDPSSG	
Q9M4V1	HMDDVPELIEMKRRANTRSLKEMALLLRGGSQIWIWIAPSGGRDRPDPSTG	
SEQ ID NO: 23	HIHDVPDLAEMKIKANAKTLRQMTILLRQGGQYYG.....	

	351	400
P10349	EWYPAPFDASSVDNMRRLIQHSDVPGHLFPLALLCHDIMPPPSQVEIEIG	
Q9FEP9	EWYPAPFDASSVDNMRRLIQHSDVPGHLFPLALLCHDIMPPPSQVEIEIG	
Q39639	EWYPAPFDASSVDNMRRLLQHSGAPGHLFPLALLCYDIMPPPSQVEIEIG	
Q9FEQ0	EWLPAPFDASSMDNMRRLIQHSGVPGHLCPLALLCYDIMPPPSQVEIEIG	
Q9M4V1	EWHPAPFDVSSVDNMRRLVEHSSVPGHIYPLSLLCYEVMPPPQQVEKQIG	
SEQ ID NO: 23	.....	

	401	450
P10349	EKRVIAFNGAGLSVAPEISFEEIAATHKNPEEVREAYSKALFDSVAMQYN	
Q9FEP9	EKRVIAFNGAGLSVAPEISFEEIAATHKNPEEVREAYSKALFDSVAMQYN	
Q39639	EKRVISFNGTGLSVGPEISFDEIAASRDNPDEVREAYSKALYDSVAKQYN	
Q9FEQ0	EKRVISFNGVGLSLAPAIISFEIAATHRNPDEAREAYSKALFDSVSMQYN	
Q9M4V1	ERRTISFHGVGLSVAPELNFNELTAGCETPEEAKEAFSQALYNSVGEQYN	
SEQ ID NO: 23	.....	

	451	476
P10349	VLKTAISGKQGLGASTADVSLSQPW.	
Q9FEP9	VLKTAISGKQGLGASTADVSLSQPW.	
Q39639	VLKAAIDGKQGLEASVADVSLSQPWI	
Q9FEQ0	VLKAAIYGRQALRASTADVSLSQPWI	
Q9M4V1	VLKSAIHEHRGLNASNSIISLSQPWQ	
SEQ ID NO: 23	.....	



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Figure 17: Alignment of SEQ ID NO: 27 with Swiss Prot database

	1	50
SEQ ID NO: 27	MEGGGSIIALPLGLMFLFSGFFINILQLLSVLFILPFSRRAYRVVNIMM	
Q9XFW4	.MAMAAVIVPLGILFFISGLVNNLLQAVCYLVRPMSKNTYRKINRVVA	
Q40119	MAIPAAAFIVPISLLEFFMSGVLVNNFIQAVFYVLRPISKDTYRRINTLVA	
Q9SDN3	.....	
Q41745	MAIPLVLVVLPLGLLFLLSGLIVNAIQAVLFVTIRPFSSFYRRINRFLA	
Q9SYC8	MKIPAAALVFIPVGVLEFLISGLIVNIIQLVFFIIVRPFSSRSLYRRINKNVA	
	51	100
SEQ ID NO: 27	EVLWSELIWLLDWWANVKVKVYTPKESWEHLGKEHALLICNHRSDIDWLW	
Q9XFW4	ETLWLELVWIVDWWAGVKIQVFADDETFNRMGKEHALVVCNHRSDIDWLW	
Q40119	ELLWLELVWVIDWWAGVKVQLYTDTESFRLMGKEHALLICNHRSDIDWLI	
Q9SDN3	.....MGKEHALVISNHRSDIDWLW	
Q41745	ELLWLQLVWVVDWWAGVKVQLHADEETYRSMGKEHALIISNHRSDIDWLI	
Q9SYC8	ELLWLQLIWLFDWWACIKINLYVDAETLELIGKEHALVLSNHRSDIDWLI	
	101	150
SEQ ID NO: 27	GWIIAQRGLGCLGGTRAVMKKSTKFLPVIGWSMWFSEYVFLSRDWAKDEKV	
Q9XFW4	GWIIAQRSGCLGSALAVMKKSSKFLPVIGWSMWFSEYLFLEARNWAKDEST	
Q40119	GWVLAQRGCLGSSIAVMKKSSKFLPVIGWSMWFSEYLFLEARNWAKDENT	
Q9SDN3	GWVLAQRSGCLGSSLAVMKKSSKFLPVIGWSMWFSEYLFLEARNWAKDEGT	
Q41745	GWIIAQRSGCLGSTLAVMKKSSKFLPVIGWSMWFSEYLFLEARNWAKDEKT	
Q9SYC8	GWVMAQRVGCLGSSLAIMKKEAKYLPPIGWWSMWFSDYIFLEARNWAKDENT	
	151	200
SEQ ID NO: 27	LKNGYSSSLKGFPRTLWVALFVEGTRFTKAKLEAAQKFAADTGLRVPRHVL	
Q9XFW4	LQSGLQRLNDFPRPFWLALFVEGTRFTEAKLAAQEYAAASELPVPRNVL	
Q40119	LKSGLQRLNDFPKPFWLALFVEGTRFTKAKLLAAQEYAAAGLPVPRNVL	
Q9SDN3	LKSGVQRLKDFPQPFWLALFVEGTRFTQAKLLAAQEYAAATGLPVPRNVL	
Q41745	LKWGLQRLKDFPRPFWLALFVEGTRFTPAKLLAAQEYAAASQGLPAPRNVL	
Q9SYC8	LKAGFKRLEDFPMTFWLALFVEGTRFTQEKLEAAQEYASIRSLPSRNVL	
	201	250
SEQ ID NO: 27	VPRTKGFVSAVENLREFVPVVYDMTVAISKELPNPTMIRIFRGQPSVVHV	
Q9XFW4	IPRTKGFVSAVSNMRSFVPAIYDMTVAIPKTSPPPTMLRFLKQPSVVHV	
Q40119	IPRTKGFVSAVSNMRSFVPAIYDLTVAIPKTTEQPTMLRFLRGKSSVVHV	
Q9SDN3	IPRTKGFVTAVSQMRSFAPAIYDVTVAIPKSSPAPTMLRFLFGRPSVVHV	
Q41745	IPRTKGFVSAVSIMRDFVPAIYDTTVIVPKDSPQPTMLRILKQSSVIHV	
Q9SYC8	IPRTKGFVSAVSEIRSFVPAIYDCTLTVHNNQPTPTLLRMFSGQSSEINL	

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Figure 17 (continued)

	251	300
SEQ ID NO: 27	HVRRVPMSDLPEGANAISKWCHDAFHIKDDRLEQHEKENTFGEDLYPIE	
Q9XFW4	HIKCHSMKDLPEPEDEIAQWCRDQFVAKDALLDKHIAADTFPGQKEQNIG	
Q40119	HLKRHLMKDLPKTDDGVAQWCKDQFISKDALLDKHVAEDTFSGLEVQDIG	
Q9SDN3	HIKRHVMRDLPETDEAVAQWCKDIFVAKDALLDKHTVEQTFGDQQLKVTG	
Q41745	RMKRHAMSEMPKSDEDEVSKWCKDIFVAKDALLDKHLATGTFD.EEIRPIG	
Q9SYC8	QMRRHKMSLPEPDDGIAQWCQDLFITKDAQLEKYFTKDVFSDLVHQIN	

	301	350
SEQ ID NO: 27	RPLKPLIIVISWAITLLAAAWFLRR..VLSTWKGIAWVAGVLVVVMLCV	
Q9XFW4	RPIKSLAVVSWACLLTLGAMKFLHWSNLFSSWKGIALSAFGLGIITLCM	
Q40119	RPMKSLVVVSWMCLLCLGLVKFLQWSALLSSWKGMMITTFVLGIVTVLM	
Q9SDN3	RPLKSLLVVTAWACLLILGALKFLYWSSLLSSWKGIAFSALGLGVTVLM	
Q41745	RPVKSLLVTLFWSCLLLFGAIEFFKWTQLLSTWRGVAFTAAGMALVTGVM	
Q9SYC8	RPIKPLIVVVIWLGFLVFGGFKLLQWLSIVASWKIILLFVFFLVIATITM	

	351	391
SEQ ID NO: 27	QILVMSSQSERSSDPAKKANQKQAASVAHLGKTD.....	
Q9XFW4	QILIRSSQSERSTPAKVAPAKPKDNHQSGPSSQTEVEEKQK	
Q40119	HILIRSSQSEHSTPAKTRARQTAENPK.....	
Q9SDN3	QILIRFSQSERSTPAPVAPTNNKNKGESSGKPEKQQ.....	
Q41745	HVFIMFSQAERSSSARAARNRVKKE.....	
Q9SYC8	QILIQSSESQRSTPAKRPLQEQLISA.....	

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Figure 18: Alignment of SEQ ID NO: 8 with Swiss Prot database

	1	50
SEQ ID NO: 8	MESTADVMSDDDPILLNGLETPLLAEFPLGERPTIGPEAPVNPFPHEPDG	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	.....MGQREDIRTLSNEYEVTDIPRRGGLSVVRRGTRRRTLHSGQHHE	
O35259	.....	
Q9FF57	.....	
	51	100
SEQ ID NO: 8	GWKTNNEWNYFQMMKSILLIPLLLVRLVSMITIVAFGYVWIRICLIGVTD	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	VVAIKTLR.RFGPPPAPEKKSINLSRVPQAALISETLTNELLVMKIVE	
O35259	.....METIMDDEVTKRTSABELESWNLLSRTNYN.	
Q9FF57	.....MIEQLGLIIMGLIHYQSERVKPREWLKLSSSENSR	
	101	150
SEQ ID NO: 8	PLFKPFNPCRRLWGLRVARAVMTMGYYYIPIKGKPAHRSEAPIIVS	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	DVSPHPNVIHLYDVCEDPSGVHLILELCSGGELFDRIAGQARYNEEGAAA	
O35259	...FQYISLRLTILWGLGVLRICYFLLEPLRIALFTGIGLLVVGTTMVG	
Q9FF57	LG.NTKTNHRRSETGDVSYEQRDLLDISPTLTEAGAIVDFHCFKTCRCF	
	151	200
SEQ ID NO: 8	NHIGFLDPIFVFYRHLPAIVSAKENVEMPIIGLFLQALQIIPVDRDQAQ	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	VVRQIAKGLEALHGASIVHRDLKPENCLFLNKDENSPLKIMDFGLSSIED	
O35259	LPNGRFKEFLSKHVHLMCYR.....	
Q9FF57	TLAFGWIIIFLSLFIPVNALLK.....	
	201	250
SEQ ID NO: 8	RHHAAGNVRRRAVDNMWSHVMLFPQGTTTNGRAIIAFKTGAFSPGLPVQP	
P42322	.....	
Q9NKNW7	.....	
Q9XFJ4	FANPVVGLFGSIDVVSPEALSREKITTSDIWSLGVILYILLSGYPPPIA	
O35259	.....	
Q9FF57	.....GQDRLRKKIER	

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Figure 18 (continued)

	251	300
SEQ ID NO: 8	MVIRYPHKYVNP SWCDQGGPLVVVLQ LMTQFINHMEVEYLPVMKPTVREM	
P42322	.....	
Q9NWK7	.....	
Q9XFJ4	PSNRQKQMILNGQFSFDEKTWKNISSSAKQLISSLLKVDPNMRPTAQEI	
O35259	ICVR.ALTAITYHN.....	
Q9FF57	VLVEMICSFFVASWTG.....	

  

	301	350
SEQ ID NO: 8	KYPHEFASRVSRSEMAKALGIVCTEHSFLD...IKLALAAEKLKQPSGRSL	
P42322	.....MGTNTSSLRP	
Q9NWK7	.....MGN	
Q9XFJ4	LEHPWVTGDLAKQEQMDAEIVSRQLQSFNARRKFRAAAMASILSSSFSLRT	
O35259	.....RKNRPRN.....GG	
Q9FF57	.....VVKYHGPRPSIRP...KQ	

  

	351	400
SEQ ID NO: 8	VEFARMEKLFRLDFPTAKEYLEKFSA MDRTHSGF..VTFEELCTALDLP.	
P42322	EEVEEMQKGTNFTQKEIKKLYKRFKKLDKDGNGT..ISKDEFMLIPELA.	
Q9NWK7	ENSLPMELCSNFDPEIKRLGKRFRKLDLDNSGS..LSVDEFMTLPELQ.	
Q9XFJ4	KKLKKLVGSYDLKPEELENLSHNFKKICKNGENSTLLEFEVLKAMEMSS	
O35259	ICVANHTSRIDV IIFASDGYAMVGQVHGGLMGVIQRAMVKACPHVWFE.	
Q9FF57	VYVANHTSMIDFIVLEQMTAFVIMQKHPGWVGLLQSTILESVCIWFN.	

  

	401	450
SEQ ID NO: 8	RSPITKQVFNLFDKDGHSINFREFLAGLAFVSSHTSFSSTMEAAFACD	
P42322	VNPLVKRVISIFDENGDSVNFKEFIAALSVFNAQGDQQRKLEFAFKVYD	
Q9NWK7	QNPLVQRVIDIFDTDGNGEVDFKEFIEGVSQFSVKGDKLSKLRFAFKIYD	
Q9XFJ4	LVPLAPRIFDLFDNNRDGTVD MREIIGGFSSSLKYSQGD.DALRLCFQVYD	
O35259	RSEVKDRHLVAKRLTEHVQDKSKLPILIFPEGTCINNT.SVMMFKKGSFE	
Q9FF57	RSEAKDREIVAKKLRDHVQGADSNPLLI FPEGTCVNNN.YTVMFKKGAFE	

  

	451	500
SEQ ID NO: 8	VNGDGTLSRDEVERSLLDIFPELPPI.....TVFKLFDTL DINHDEKIS	
P42322	IDGDGYISNGELFTVLKMMVGNNLSD.VQLQQIVDKTILEADEDGDGKIS	
Q9NWK7	MDKDGYSNGELFQVLKMMVGNNLKD.TQLQQIVDKTIIHADADGDGKIS	
Q9XFJ4	TDRSGCISKEEVESMLRALPEDCLPINT EPGKLD EIFDLMDANS DGKVT	
O35259	IGATVYPVAIKYDPQFGDAFWNSSKYG.....MVTYLLRMMTSWAIVCSV	
Q9FF57	LDCTVCPIAIKYNKIFVDAFWNSRKQS.....FTMHLQLMTSWAVVCEV	

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Figure 18 (continued)

	501	550
SEQ ID NO: 8	WEEFSSFLQRNPEYLAIIIYAHPTLLKPPTSTS.....	
P42322	FEEFAKTLSHQDLENKMTIRL.....	
Q9NKW7	FEEFCVVGNMDVHKKMVVDV.....	
Q9XFJ4	FDEFKAAMQRDSSLQDVVLSSLRPN.....	
O35259	WYLPMTREKDEDAVQFANRVKSAIARQEDW.....	
Q9FF57	WYLEPQTIRPGETGIEFAERVDMISLRAGLKKVPWDGYLKYSRPSPKHS	

	551	568
SEQ ID NO: 8	.....	
P42322	.....	
Q9NKW7	.....	
Q9XFJ4	.....	
O35259	.....	
Q9FF57	ERKQQSFAESILARLEEK	

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Figure 19: Alignment of SEQ ID NO: 10 with Swiss Prot database

	1	50
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	MTSTENTAMFTEDTSTLNGSTEANHAEFPLGERPTIGPEPPVNPFHESST	
O35259	.....METIMDDEVTKRTSAEEL	
Q9XFJ4	MGQREDIRTLISNEYEVTDIPRRGGLSVVRRGTRRRTLHSGQHHEVVAIKT	
	51	100
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	WSIPQVIKTILLVPLLVIIRLLSMFALMMLGYICVKVAMIGCKDPLFKPFW	
O35259	ESWNLLSRITNYNFQYISLRILTILWGLVLIIRYCFLLP.....	
Q9XFJ4	LRRFGPPPAPEKKSINKSRVQAALISETLTNEILLVMIKIVEDVSPHPN	
	101	150
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	PLRRLLLVSVRLIARGVMVAMGYYYILVKGKPAHRVAPIIVSNHIGFVD	
O35259	.....LRIALFTGIGLLVVG.....TTMVG...	
Q9XFJ4	VIHLYDVCEDPSGVHLILELCSGGELFDRIAGQARYNEEGAAAVVRQIAK	
	151	200
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	PIFVFYRHLPIVIVSAKEIVEMPIIGMFLQALQIIPVDRINPASRHAAGN	
O35259	.....YLPNGRFKEFLSKH....	
Q9XFJ4	GLEALHGASIVHRDLKPENCLFLNKDENSPLKIMDFGLSSIEDFANPVVG	
	201	250
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	IRRRAMDNEWPHVMLFPEGTTTNGKALISFKTGAFSPGLPVQPMVIKYPH	
O35259	.....VHLMCYR.....	
Q9XFJ4	LFGSIDYVSPEALSREKITTTSIDISLGVILYILLSGYPPFIAPSNRQKQ	
	251	300
Q24214	.....	
P28470	.....	
SEQ ID NO: 10	KYVNPCWCNQGGPLVILFQLMTQFVNYMEVEYLPVMTPNVHEIKNPHEFA	
O35259	.....ICVR.....ALTAITYHNRK	
Q9XFJ4	QMILNGQFSFDEKTKWNISSSAKQLISSLLKVDPNMRPTAQEILEHPWVT	

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Figure 19 (continued)

	301	350
Q24214	.....	MGNETSLPME
P28470	.....	GNEASYHSE
SEQ ID NO: 10	NRVRTMAKALGVVCTEHNF...	LDIKLKMAAEKQPSGRSLVEFARME
O35259	NRPR.....	N.....GGICVANHT
Q9XFJ4	GDLAKQEQMDAEIVSRLQSFNARRKFRAAAMASILSSSFSLRTKKLKKLV	

	351	400
Q24214	MCSNFDADAEIRRLGKRFRKLDLD..	NSGALSVDEFMSLPQL.QNPLVQR
P28470	MGTHFDHDEIKRLGRSFKKMDLD..	KSGSLSVDEFMSLPQL.QNPLVGR
SEQ ID NO: 10	KLFRLDYSKAQEYLEKFSAMDPS..	HSGYVTYDEFLKALHLP.PTQITEQ
O35259	SRIDVIIFASDGYAMVGQVHGG..	LMGVIQRAMVKACPHVW.FERSEVK
Q9XFJ4	GSYDLKPEELENLSHNFKKICKNGENSTLLEFEEVLKAMEMSSLVPLAPR	

	401	450
Q24214	VIDIFDADGNGEVDKFKEFIQVVSQFS.	VKGDKLSKLRFAFRIYDMNDGY
P28470	VIDIFDTDGNGEVDREFIVGTSQFS.	VKGDEEQKLRFAFRIYDMNDGF
SEQ ID NO: 10	VFNLFDKNGHGSINFREFVAGLAFLS.	THTSFQTTMKAAFKACDVDGDGT
O35259	DRHLVAKRLTEHVQDKSKLPILIFPEGTCINNTSVMFMFKKGSFEIGATVY	
Q9XFJ4	IFDLFDNNRDGTVDMRIIGGFSSLK..	YSQGDDALRLCFQVYDTRSGC

	451	500
Q24214	ISNGELFQVLKMMVGNNLKD.TQLQQIVDKTIGFADKDEDGKISFDEFCS	
P28470	ISNGELFQVLKMMVGNNLKD.WQLQQLVDKSILVLDKDGDRISFEEFRD	
SEQ ID NO: 10	LTRNEVESSLMAVFP.....	ELPPATVLKLFDTLDLNRDGSINWEEFSS
O35259	PVAIKYDPQFGDAFWN.....	SSKYGMVTYLLRMTSWAIVCS
Q9XFJ4	ISKEEVESMLRALPEDCLPINITEPGKLDEIFDLMDANS DGKVTFDEFKA	

	501	532
Q24214	VVGNTDIHKKMVVDV.....	
P28470	VVRTMEIHKKL VVFDHGQED.....	
SEQ ID NO: 10	FLQRNPEYLAI ILAAHPTLLQAPKSESEETNI	
O35259	VWYLPMTREKDEDAVQFANRVKSAIARQEDW	
Q9XFJ4	AMQRDSSLQDVVLSSLRPN.....	

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Figure 20: Alignment of SEQ ID NO: 12 with Swiss Prot database

	1	50
Q9XFW4	.MAMAAVIVPLGILFFISGLVNVLLQAVCYVLRPMSKNTYRKINRVVA	
Q9SDN3	.....	
Q40119	MAIPAAAFIVPISLLFFMSGVLVNFQAVFYVLRPISKDTYRRINTLVA	
Q41745	MAIPLVLVVLPLGLLFLLSGLIVNAIQAVLFVTIRPFKSFYRRINRFLA	
Q9SYC8	MKIPAALVFIPVGVFLISGLIVNIIQLVFFIIVRPFSRSLYRRINKNVA	
SEQ ID NO: 12	.....	MIMM

	51	100
Q9XFW4	ETLWLELVWIVDWWAGVKIQVFADDETFNRMGKEHALVVCNHRSDIDWL	V
Q9SDN3	.....	MGKEHALVISNHRSDIDWL
Q40119	ELLWLELVWVIDWWAGVKVQLYTDTESFRLMGKEHALLICNHRSDIDWLI	
Q41745	ELLWLQLVWVVDWWAGVKVQLHADEETYRSMGKEHALIISNHRSDIDWLI	
Q9SYC8	ELLWLQLIWLFDWWACIKINLYVDAETLELIGKEHALVLSNHRSDIDWLI	
SEQ ID NO: 12	EVLWSELIWLDDWANVKVKVYTPKESWEHLGKEHALLICNHRSDIDWL	V

	101	150
Q9XFW4	GWILAQRSGCLGSALAVMKSSKFLPVIGWSMWFSEYLFLEARNWAKDEST	
Q9SDN3	GWVLAQRSGCLGSSLAVMKSSKFLPVIGWSMWFSEYLFLEARNWAKDEGT	
Q40119	GWVLAQRSGCLSSSIAMVKSSKFLPVIGWSMWFSEYLFLEARNWAKDENT	
Q41745	GWILAQRSGCLGSTLAVMKSSKFLPVIGWSMWFSEYLFLEARNWAKDEKT	
Q9SYC8	GWVMAQRVGCLGSSLAIMKKEAKYLPPIGWSMWFSDYIFLEARNWAKDENT	
SEQ ID NO: 12	GWIIAQRGCLGGTRAVMKSTKFLPVIGWSMWFSEYVFLSRDWAKDEKV	

	151	200
Q9XFW4	LQSGLQRLNDFPRPFWLALFVEGTRFTEAKLAAQEYAAASELPVPRNVL	
Q9SDN3	LKSGVQRLKDFPQPFWLALFVEGTRFTQAKLLAAQEYAAATGLPVPRNVL	
Q40119	LKSGLQRLNDFPKPFWLALFVEGTRFTKAKLLAAQEYAAASAGLPVPRNVL	
Q41745	LKWGLQRLKDFPRPFWLALFVEGTRFTPAKLLAAQEYAAASQGLPAPRNVL	
Q9SYC8	LKAGFKRLEDFPMTFWLALFVEGTRFTQEKLEAAQEYASIRSLPSRNVL	
SEQ ID NO: 12	LKNGYSSLKGFPRTLWVALFVEGTRFTKAKLEVAQKFAADTGLRVPRYVL	

	201	250
Q9XFW4	IPRTKGFVSAVSNMRSFVPAIYDMTVAIPKTSPPPTMLRLFKGQPSVVHV	
Q9SDN3	IPRTKGFVTAVSQMRSFAPAIYDVTVAIPKSSPAPTMLRLFEGRPSVVHV	
Q40119	IPRTKGFVSAVSNMRSFVPAIYDLTVAIPKTTEQPTMLRLFRGKSSVVHV	
Q41745	IPRTKGFVSAVSIIMRDFVPAIYDTTVIVPKDSPQPTMLRLKQSSVIHV	
Q9SYC8	IPRTKGFSAVSEIRSFVPAIYDCTLTVHNNQPTPTLLRMFSGQSSEINL	
SEQ ID NO: 12	VPRTKGFSAVENLREFVPVYDMTVAISKELPNPTMIRIFRGQPSVVHV	



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Figure 20 (continued)

	251	300
Q9XFW4	HIKCHSMKDLPEPEDEIAQWCRDQFVAKDALLDKHIAADTFPGQKEQNIG	
Q9SDN3	HIKRHVMRDLPETDEAVAQWCKDIFVAKDALLDKHTVEQTFGDQQLKVTG	
Q40119	HLKRHLMKDLPKTDDGVAQWCKDQFISKDALLDKHVAEDTFSGLEVQDIG	
Q41745	RMKRHAMSEMPKSDEDVSKWCKDIFVAKDALLDKHLATGTFD.EEIRPIG	
Q9SYC8	QMRRHKMSELPETDDGIAQWCQDLFITKDAQLEKYFTKDVFSDLVHQIN	
SEQ ID NO: 12	YVRRVPMSDLPEGANAISKWCHDAFHIKDDRLEQHEKENTFGEDLYIPIE	
	301	350
Q9XFW4	RPIKSLAVVSWACLLTLGAMKFLHWSNLFSSWKGIASAFGLGIITLCM	
Q9SDN3	RPLKSLVVTAWACLLILGALKFLYWSSLLSSWKGIASFALGLGVTVLM	
Q40119	RPMKSLVVVSWMCLLCLGLVKFLQWSALLSSWKGMMITTFVLGIVTVLM	
Q41745	RPVKSLLVTLFWSCLLLFGAIEFFKWTQLLSTWRGVAFATAAGMALVTGVM	
Q9SYC8	RPIKPLIVVVIWLGLVFGGFKLLQWLSIVASWKIILLFVFFLVIATITM	
SEQ ID NO: 12	RPLKPLIIVISWAITLLAAAWFLRR.VLSTWKGIWVAGVLVVVMLCV	
	351	391
Q9XFW4	QILIRSSQSERSTPAKVAPAKPKDNHQSGPSSQTEVEEKQK	
Q9SDN3	QILIRFSQSERSTPAPVAPTNNKNKGESSGKPEKQQ.....	
Q40119	HILIRSSQSEHSTPAKTRARQTAENPK.....	
Q41745	HVFIMFSQAERSSSARAARNRVKKE.....	
Q9SYC8	QILIQSSESQRSTPAKRPLQEQQLISA.....	
SEQ ID NO: 12	QILVMSSQSERSSDPAAKKANQKQAASVAHLGKTD.....	